

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
|       |      | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches and predetermined and operation and section and reaches and operation and section and predetermined and external and force and predetermined and operation and amount and reached and applied and direction and opposite and operation and direction and operation and section and and operation and section and stopped and external and force and applied and operation and section and reduced and increase and returning and amount | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/10/19 10:16 |

## EAST Search History

|  |  |  |  |           |           |                         |
|--|--|--|--|-----------|-----------|-------------------------|
|  |  | <p>force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches and predetermined and operation and amount and operation and amount and operation and section and reaches and predetermined and operation and amount and external and force and corresponding and predetermined and operation and amount and reached and applied and direction and opposite and operation and direction and operation and section and and operation and section and stopped and external and force and applied and operation and section and reduced and increase and returning and amount and operation and section and stopping and position and operation and section</p> | <p>US-PGPUB;<br/>USPAT;<br/>EPO; JPO;<br/>DERWENT;<br/>IBM_TDB</p> | <p>OR</p> | <p>ON</p> | <p>2006/10/19 10:08</p> |
|--|--|--|--|-----------|-----------|-------------------------|

## EAST Search History

|    |   |   |   |    |    |                  |
|----|---|---|---|----|----|------------------|
|    |   | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and position\$6 same sensor and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and start and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches and predetermined and operation and amount and operation and amount and operation and section and reaches and predetermined and operation and amount and external and force and corresponding and predetermined and operation and amount and reached and applied and direction and opposite and operation and direction and operation and section and and operation and section and stopped and external and force and applied and operation and section and reduced and increase and returning and amount and operation and section and stopping and position and operation and section | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:04 |
| L1 | 2 | "6,987,508".pn.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:52 |
| L2 | 1 | "6,987,508".pn. and force\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:53 |
| L3 | 1 | "6,987,508".pn. and force\$6 and joystick\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:54 |

## EAST Search History

|     |   |  |   |    |    |                  |
|-----|---|--|---|----|----|------------------|
| L4  | 1 | "6,987,508".pn. and external same force\$6 and joystick\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:56 |
| L5  | 1 | "6,987,508".pn. and external same force\$6 and joystick\$6 and actuator  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 11:00 |
| L6  | 0 | "6,987,508".pn. and external same force\$6 and joystick\$6 and actuator and opposit\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 11:01 |
| L7  | 1 | "6,987,508".pn. and external same force\$6 and joystick\$6 and actuator and direct\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 15:09 |
| L8  | 1 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and opposit\$6                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 11:02 |
| L9  | 1 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and (opposit\$6 or reverse\$6) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 11:03 |
| L10 | 2 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and (stop\$6 or friction\$6)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 15:09 |
| L11 | 1 | "6,987,508".pn. and external same force\$6 and joystick\$6 and actuator and direct\$6 and (stop\$6 or friction\$6)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 11:09 |

## EAST Search History

|     |    |  |   |    |    |                  |
|-----|----|--|---|----|----|------------------|
| L12 | 1  | "6,987,508".pn. and (stop\$6 or friction\$6)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 11:09 |
| L15 | 1  | input\$6 adj device\$6 adj force\$6 adj apply\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 13:49 |
| L16 | 1  | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and (stop\$6 or friction\$6) and slop\$6 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 15:09 |
| L17 | 0  | "6,987,508".pn. and external same force\$6 and joystick\$6 and actuator and direct\$6 and expo\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 15:10 |
| L18 | 0  | "6,987,508".pn. and external same force\$6 and joystick\$6 and actuator and direct\$6 and slop\$5  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 15:10 |
| L19 | 19 | input\$6 adj device\$6 and force\$6 adj apply\$6 and joystick\$6 and actuat\$6 and position\$6 adj sensor and slop\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 15:10 |
| L20 | 2  | input\$6 adj device\$6 and force\$6 adj apply\$6 and joystick\$6 and actuat\$6 and position\$6 adj sensor and slop\$6 and expo\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 15:11 |
| L21 | 1  | input\$6 adj device\$6 and force\$6 adj apply\$6 and joystick\$6 and actuat\$6 and position\$6 adj sensor and slop\$6 and exponent\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 15:22 |
| L22 | 7  | input\$6 adj device\$6 and force\$6 adj apply\$6 and slop\$6 and exponent\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 15:12 |

## EAST Search History

|     |        |  |   |    |    |                  |
|-----|--------|--|---|----|----|------------------|
| L23 | 4      | input\$6 adj device\$6 and force\$6 adj apply\$6 and joystick\$6 and slop\$6 and exponent\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 15:22 |
| S1  | 228191 | input adj device   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 14:51 |
| S2  | 233479 | input\$6 adj device\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 14:51 |
| S3  | 39803  | input\$6 adj device\$6 and force\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 14:51 |
| S4  | 285    | input\$6 adj device\$6 and force\$6 adj apply\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 13:49 |
| S5  | 62     | input\$6 adj device\$6 and force\$6 adj apply\$6 and joystick\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 14:52 |
| S6  | 47     | input\$6 adj device\$6 and force\$6 adj apply\$6 and joystick\$6 and actuat\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 14:52 |
| S7  | 32     | input\$6 adj device\$6 and force\$6 adj apply\$6 and joystick\$6 and actuat\$6 and position\$6 adj sensor                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 15:10 |
| S8  | 11     | input\$6 adj device\$6 and force\$6 adj apply\$6 and joystick\$6 and actuat\$6 and position\$6 adj sensor and external                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 15:14 |
| S9  | 12     | input\$6 adj device\$6 and force\$6 adj apply\$6 and joystick\$6 and actuat\$6 and position\$6 adj sensor and external\$6 and direction\$6 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 15:14 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S10 | 7    | input\$6 adj device\$6 and force\$6 adj apply\$6 and joystick\$6 and actuat\$6 and position\$6 adj sensor and external\$6 and direction\$6 same chang\$6                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 15:31 |
| S11 | 124  | 700/85.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 15:16 |
| S12 | 58   | 700/85.ccls. and force\$6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 15:16 |
| S14 | 4    | 700/85.ccls. and force\$6 same apply\$6 same input\$6 same device\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 15:17 |
| S15 | 2234 | ken and matsumoto   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 15:26 |
| S16 | 87   | ken and matsumoto and input adj device  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 15:27 |
| S17 | 6    | ken and matsumoto and input adj device and apply\$6 adj force\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 15:30 |
| S18 | 4    | ken and matsumoto and input adj device and apply\$6 adj force\$6 and satoshi and hayasaka   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 15:31 |
| S19 | 2    | input\$6 adj device\$6 and force\$6 adj apply\$6 and joystick\$6 and actuat\$6 and position\$6 adj sensor and external\$6 and direction\$6 same chang\$6 and opposit\$6 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 16:39 |

## EAST Search History

|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S20 | 1   | input\$6 adj device\$6 and force\$6 adj apply\$6 and joystick\$6 and actuat\$6 and position\$6 adj sensor and external\$6 same force\$6 same apply\$6 same direction\$6 same opposit\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 16:40 |
| S21 | 4   | input\$6 adj device\$6 and actuat\$6 and position\$6 adj sensor and external\$6 same force\$6 same apply\$6 same direction\$6 same opposit\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 16:40 |
| S22 | 0   | forc same applying same input same device and position same sensor same detecting  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 16:48 |
| S23 | 102 | force same applying same input same device and position same sensor same detecting   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 16:48 |
| S24 | 8   | force same applying same input same device and position same sensor same detecting and actuator same applying same external same force   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/18 16:51 |
| S25 | 16  | 700/85.ccls. and force\$6 same apply\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 08:53 |
| S26 | 0   | "20020108802" and joystick   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 09:46 |
| S27 | 1   | force same applying same input same device and position same sensor same detecting and actuator same applying same external same force and control same section and controlling same drive same actuator same based same position\$6 same signal\$6 same output\$6 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 09:54 |



## EAST Search History

|     |   |  |   |    |    |                  |
|-----|---|--|---|----|----|------------------|
| S28 | 2 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 11:02 |
| S29 | 1 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and position\$6 same sensor and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and start and position | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:04 |
| S30 | 1 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and position\$6 same sensor and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:05 |
| S31 | 1 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and position\$6 same sensor and control\$6 and section and computing and operation and amounts and operation and directions  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:07 |

## EAST Search History

|     |   |   |   |    |    |                  |
|-----|---|---|---|----|----|------------------|
| S32 | 1 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:07 |
| S33 | 1 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:08 |
| S34 | 1 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:09 |

## EAST Search History

|     |   |  |   |    |    |                  |
|-----|---|--|---|----|----|------------------|
| S35 | 1 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:09 |
| S36 | 0 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches and predetermined and operation and amount and operation and amount and operation and section and reaches and predetermined and operation and amount and external and force and corresponding | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:11 |

## EAST Search History

|     |   |  |   |    |    |                  |
|-----|---|--|---|----|----|------------------|
| S37 | 0 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches and predetermined and operation and section and reaches and predetermined and operation and amount and external and force and corresponding | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:11 |
| S38 | 0 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches and predetermined and operation and section and reaches and predetermined and external and force and corresponding                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:12 |

## EAST Search History

|     |         |  |   |    |    |                  |
|-----|---------|--|---|----|----|------------------|
| S39 | 1673574 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches and predetermined and operation and section and reaches operation and section     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:12 |
| S40 | 1       | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches and predetermined and operation and section and reaches and operation and section | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:13 |

## EAST Search History

|     |   |   |   |    |    |                  |
|-----|---|---|---|----|----|------------------|
| S41 | 0 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches and predetermined and operation and section and reaches and operation and section and predetermined and external and force and corresponding | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:14 |
| S42 | 1 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches and predetermined and operation and section and reaches and operation and section  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:14 |

## EAST Search History

|     |   |   |   |    |    |                  |
|-----|---|---|---|----|----|------------------|
| S43 | 0 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches and predetermined and operation and section and reaches and operation and section and predetermined and external and force and correspond\$6 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:14 |
| S44 | 1 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches and predetermined and operation and section and reaches and operation and section and predetermined and external and force                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:15 |

## EAST Search History

|     |   |  |   |    |    |                  |
|-----|---|--|---|----|----|------------------|
| S45 | 1 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches and predetermined and operation and section and reaches and operation and section and predetermined and external and force and predetermined and operation and amount and reached and applied and direction and opposite and operation and direction and operation and section and operation and section and stopped and external and force and applied and operation and section and reduced and increase and returning and amount | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:16 |
|-----|---|--|---|----|----|------------------|



## EAST Search History

|     |   |  |   |    |    |                  |
|-----|---|--|---|----|----|------------------|
| S46 | 1 | force same applying same input same device and position same sensor and detecting and actuator same applying same external same force and control same section and controlling same drive same actuator and based same position\$6 and signal\$6 same output\$6 and control\$6 and section and computing and operation and amounts and operation and directions and operation and section and based and position and signal and controlling and drive and actuator and operation and section and operated and direction and position and external same force same increases and direction same opposite and operation and direction and operation and section and until and operation and amount and operation and section and reaches and predetermined and operation and section and reaches and operation and section and predetermined and external and force and predetermined and operation and amount and reached and applied and direction and opposite and operation and direction and operation and section and operation and section and stopped and external and force and applied and operation and section and reduced and increase and returning and amount and operation and section and stopping and position | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/10/19 10:16 |
|-----|---|--|---|----|----|------------------|